

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/083592 A3

(51) International Patent Classification⁷: **E21B 17/00,**
19/16

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(21) International Application Number:
PCT/US2004/008073

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(22) International Filing Date: 18 March 2004 (18.03.2004)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/455,718 18 March 2003 (18.03.2003) US

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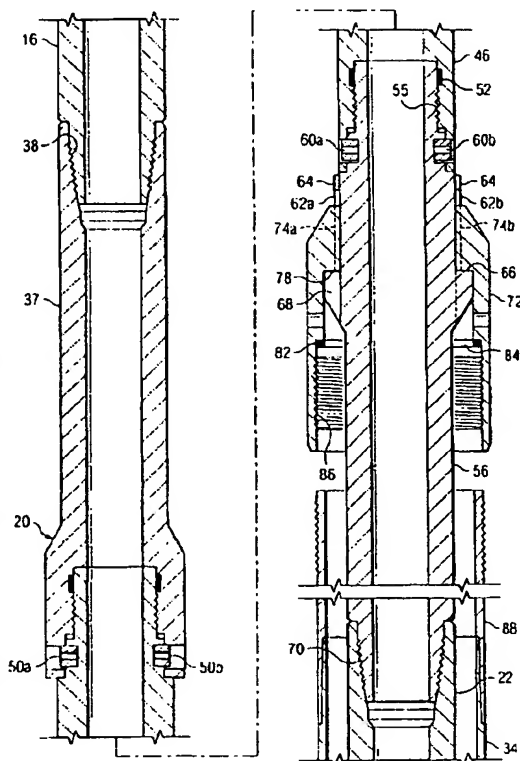
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(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR RUNNING A RADially EXPANDABLE TUBULAR MEMBER



(57) Abstract: A tubular apparatus (20) and method, according
to which a first tubular member (34) is adapted to be lowered into
a well bore and a second tubular member (120) is connected to the
first tubular member (34). A third tubular member (102, 112) is
normally connected to the first tubular member (34) and discon-
nected from the second tubular member (102, 112), and is adapted
for movement relative to the first (34) and second tubular (120,
112) members to disconnect from the first tubular member (34)
and connect to the second tubular member (102, 112).



GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ,

EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NI, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- of inventorship (Rule 4.17(iv)) for US only
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report

(88) Date of publication of the international search report:
19 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08073

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E21B 17/00, 19/16
US CL : 166/242.7, 380, 208

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 166/242.7, 380, 277, 377, 378, 381, 382, 77, 51, 301, 206, 242, 1, 242, 6, 207, 208

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P, L	US 2003/0075337 A1 (Maguire) 24 April 2003 (24.04.2003), see Figures.	21-26, 28-34
Y, P, L		27
Y	US 2002/0139540 A1 (Lauritzen) 03 October 2002 (03.10.2002), see paragraph 0038.	27
A	US 4,919,177 A (Claycomb) 10 April 1990 (10.04.1990), see Figures.	1-20
A	US 4,995,464 A (Walkins et al.) 26 February 1991 (26.02.1991), see Figures.	1-20
A	US 3,667,547 A (Ahlstone) 06 June 1972 (06.06.1972), see Figures.	1-20
A	US 5,566,772 A (Coope et al.) 22 October 1993 (22.10.1993), see Figures.	1-20
A	US 4,778,088 A (Gonzalez et al.) 18 October 1988 (18.10.1988), see Figures.	1-20
A, T	US 6,516,887 B2 (Nguyen et al.) 11 February 2003 (11.02.2003), see Figures.	1-20

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited in order to understand the principle or theory underlying the invention
"B" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (to be specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring in its oral disclosure, use, exhibition or other means	"Z" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

04 August 2004 (04.08.2004)

Date of mailing of the international search report

04 MAR 2005

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,E	US 6,732,806 B2 (Mauldin et al.) 11 May 2004 (11.05.2004), see Figures.	21-34
A,E	US 6,695,065 B2 (Simpson et al.) 24 February 2004 (24.02.2004), see Figures.	21-34
A,P,L	US 6,543,552 B1 (Metcalf et al.) 08 April 2003 (08.04.2003), see Figures.	21-34
A,P,L	US 6,543,545 B1 (Chatterji et al.) 08 April 2003 (08.04.2003), see Figures.	21-34
A	US 6,325,148 B1 (Trahan et al.) 04 December 2001 (04.12.2001), see Figures.	21-34
A	US 5,785,120 A (Smalley et al.) 28 July 1998 (28.07.1998), see Figures.	21-34

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INTERNATIONAL SEARCH REPORT

PCT/US04/08073

Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: expandable casing, expandable tubing, expandable liner, connection, thread, torque, cement, resistance, restriction, obstruction, expander, expansion cone, expansion mandrel, rotation, tension, liner hanger